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April 24, 1969

Rec. 29 Apr.
9 business days
late.
Prof. Report

U. S. Government

Attention: Ed D.

Subject: Control No. 02228 - Status Report
for Period Ending March 31, 1969

Gentlemen:

During this report period the following tasks have been performed.

1. Machining operations continued on the X and Y coordinate precision lead screw and nut assembly. Included in these operations were the following functions.
 - a. Finish threading on two of the four precision lead screw blanks in preparation for lapping operations.
 - b. Work was started on the lapping nuts for the precision lead screws.
 - c. The precision nut castings were rough machined and are presently ready for profiling.
2. Detail drawings of components utilized in the following design layouts were checked and sent to the production department for manufacture.
 - a. X and Y coordinate stages.
 - b. Bearing blocks for precision lead screws.
 - c. Instrument base.
 - d. 360° rotary table and associated drive motion.
 - e. Upper pressure platen for the 360° cut film stage.
3. A telegram was sent to [redacted] requesting their best estimate of delivery date for the High Power Stereo Comparator Head. [redacted] [redacted] reply stated that they may be able to improve the current delivery schedule by approximately 30 days. When [redacted] confirms this proposed earlier shipping date, every attempt will be made by the [redacted] [redacted] to improve delivery of the twin stage comparator to the customer.

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4. Rough machine and stress relieve the 360° rotary table and stage castings for the X and Y coordinate motions.
5. Milestone dates for the twin stage comparator were received and are presently estimated as follows:
 - a. June 30, 1969 - Receipt of High Power Stereo Head from [] (This date may be improved by approximately 30 days.)
 - b. July 31, 1969 - Completion of the Digital Control System
 - c. July 31, 1969 - Completion of the electrical, optical, and mechanical portions of the twin stage comparator with the exception of the stereo viewing system.
 - d. October 15, 1969 - The twin stage comparator system to be completed and ready for delivery to the customer. [] intends to deliver the instrument prior to this date if possible, in which case the customer will be notified and asked to approve the earlier delivery.

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The [] wishes to report that a written answer has not yet been received in response to their letter dated December 31, 1968. This letter addressed to the Contracting Officer for Control No. 02228 contained a request for extension of [] and that a partial payment of this contract be considered. Both requests are directly related to the unavoidable delay encountered in obtaining a written price and delivery quotation from [] for one High Power Stereo Comparator Head. The [] has been verbally informed by the Contracting Officer that these requests were considered to be reasonable and anticipated that they would be granted, most particularly that for an extension of the contract. The twin stage comparator contract, unless extended, is scheduled to expire on April 30, 1969. It is estimated that approximately 30% of the work on the twin stage comparator contract has been completed as of this report period.

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During the April report period the [] plans to do the following work.

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1. Make a design layout for the instrument console to determine method of construction, leveling, and location of the castors utilized to provide mobility.
2. Generate and check detailed drawings of the instrument console and submit them to a vendor for manufacture of the console.
3. Order the chair, castors, and leveling type vibration isolators selected for use with the instrument console.
4. Complete and check detailed drawings of the general field illumination system. Drawings of the lamp elements will then be submitted to a vendor for a manufacturing quotation.
5. Start a design layout of the electrical and mechanical safety limit stops for the X and Y coordinate stage motions. Detailed drawings of the mechanical components will be made, checked, and forwarded to the production department for manufacture.
6. Start a design layout of the operator's controls and method of mounting them on the top surface of the instrument console.
7. The production department is scheduled to perform the following manufacturing tasks:
 - a. Send the 360° rotary table and X and Y coordinate stage castings out to be finish ground prior to finish machining operations.
 - b. Start finish machining the base casting for the twin stage comparator.
 - c. Finish machine threads on the remaining two precision lead screws.
 - d. Start finish machine operations on the X and Y coordinate stage castings.
 - e. Profile the precision nut castings in preparation for the internal threading operation.
 - f. Start manufacturing components from detailed drawings previously submitted to the production department for which labor hours are now available.

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In addition to those tasks already reported as having been performed during this report period, the financial and manufacturing schedules required to complete the twin stage comparator contract were estimated. It is felt that the format as presented in this month's Statement of Funds more clearly indicates the actual current and projected costs as applied to the contract. Please note that no profit has been applied to any of these cost figures. The manufacturing schedule resulting from this review indicates that the twin stage comparator can be completed and delivered as shown by the milestone dates listed in this month's report.

A Status of Funds statement will be found on the following page.

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Very truly yours,

A rectangular box with a black border, used to redact the signature of the Asst. Manager, Engineering.

Asst. Manager, Engineering

HBB/pc

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